		Exploring Aeror	
	200	1 Science and Technol	
		Curriculum Fram	eworks
Massachusetts Scien	ce and Techn	ology/Engineering	
Grades 3-5			
Activity/Lesson	State	Standards	
			Identify relevant design features (e.g., size,
			shape, weight) for building a prototype of a
Wings(177-208)	MA	SCT.3-5.4.2.3	solution to a given problem.
			Identify relevant design features (e.g., size,
Tools of			shape, weight) for building a prototype of a
Aeronautics(257-326)	MA	SCT.3-5.4.2.3	solution to a given problem.
			Identify relevant design features (e.g., size,
The Tools of			shape, weight) for building a prototype of a
Aeronautics	MA	SCT.3-5.4.2.3	solution to a given problem.
			Differentiate between properties of objects (e.g.,
			size, shape, weight) and properties of materials
Science of Flight	MA	SCT.3-5.3.1	(e.g., color, texture, hardness).
J			Identify materials used to accomplish a design
			task based on a specific property, i.e., weight,
Science of Flight	MA	SCT.3-5.4.1.1	strength, hardness, and flexibility.
<u> </u>			Identify relevant design features (e.g., size,
			shape, weight) for building a prototype of a
Science of Flight	MA	SCT.3-5.4.2.3	solution to a given problem.
			Identify relevant design features (e.g., size,
Scientific Method(124-			shape, weight) for building a prototype of a
144)	MA	SCT.3-5.4.2.3	solution to a given problem.
111)	IVD (001.00.1.2.0	Solution to a given problem.
		Exploring Aeror	nautics
	200	1 Science and Technol	
		Curriculum Fram	eworks
Massachusetts Scien	ce and Techn	ology/Engineering	
Grades 6-8			
Activity/Lesson	State	Standards	
			Identify and explain lift, drag, friction, thrust, and
Fundamentals of			gravity in a vehicle or device, e.g., cars, boats,
Aeronautics (145-176)	MA	SCT.6-8.4.6.4	airplanes, rockets.
			Identify appropriate materials, tools, and
			machines needed to construct a prototype of a
Wings(177-208)	MA	SCT.6-8.4.2.4	given engineering design.
			Identify and explain lift, drag, friction, thrust, and
Airplane Control(209-			gravity in a vehicle or device, e.g., cars, boats,
256)	MA	SCT.6-8.4.6.4	airplanes, rockets.
Tools of			Describe and explain the purpose of a given
Aeronautics(257-326)	MA	SCT.6-8.4.2.3	prototype.
-()			Identify appropriate materials, tools, and
Tools of			machines needed to construct a prototype of a
Aeronautics(257-326)	MA	SCT.6-8.4.2.4	given engineering design.
		301.0 0.7.2.7	Explain how such design features as size,
			shape, weight, function, and cost limitations
Tools of			would affect the construction of a given
Aeronautics(257-326)	MA	SCT.6-8.4.2.5	prototype.
ACIONAULIOS(201-020)	INIU	001.0-0.4.2.0	μισισιγμο.

			Identify and explain the appropriate tools,
			machines, and electronic devices (e.g., drawing
			tools, computer-aided design, and cameras)
			used to produce and/or reproduce design
Tools of			solutions (e.g., engineering drawings,
Aeronautics(257-326)	MA	SCT.6-8.4.3.2	prototypes, and reports).
			Identify and explain lift, drag, friction, thrust, and
			gravity in a vehicle or device, e.g., cars, boats,
How an Airplane Flies	MA	SCT.6-8.4.6.4	airplanes, rockets.
The Tools of			Describe and explain the purpose of a given
Aeronautics	MA	SCT.6-8.4.2.3	prototype.
			Identify appropriate materials, tools, and
The Tools of			machines needed to construct a prototype of a
Aeronautics	MA	SCT.6-8.4.2.4	given engineering design.
			Explain how such design features as size,
			shape, weight, function, and cost limitations
The Tools of		00700405	would affect the construction of a given
Aeronautics	MA	SCT.6-8.4.2.5	prototype.
			Identify and explain the appropriate tools,
			machines, and electronic devices (e.g., drawing
			tools, computer-aided design, and cameras)
T. T			used to produce and/or reproduce design
The Tools of	N 4 A	COTE 0 4 2 2	solutions (e.g., engineering drawings,
Aeronautics	MA	SCT.6-8.4.3.2	prototypes, and reports).
Science of Elight	MA	SCT.6-8.4.2.3	Describe and explain the purpose of a given
Science of Flight	IVIA	301.0-0.4.2.3	prototype. Identify appropriate materials, tools, and
Science of Flight	MA	SCT.6-8.4.2.4	machines needed to construct a prototype of a given engineering design.
Science of Flight	IVIA	301.0-0.4.2.4	Explain how such design features as size,
			shape, weight, function, and cost limitations
			would affect the construction of a given
Science of Flight	MA	SCT.6-8.4.2.5	prototype.
ocience of riight	IVIA	301.0-0.4.2.3	Identify and explain the appropriate tools,
			machines, and electronic devices (e.g., drawing
			tools, computer-aided design, and cameras)
			used to produce and/or reproduce design
			solutions (e.g., engineering drawings,
Science of Flight	MA	SCT.6-8.4.3.2	prototypes, and reports).
Co.c.ioo oi i iigiit		331133111312	Identify and explain lift, drag, friction, thrust, and
			gravity in a vehicle or device, e.g., cars, boats,
Science of Flight	MA	SCT.6-8.4.6.4	airplanes, rockets.
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